

Partial Translation of JP 1987-167543

Publication Date: July 23, 1987

Application No.: 1987-1891

Filing Date: January 10, 1983

Applicant: HITACHI MEDICAL CORP

Inventor: Toshiro KONDO

Inventor: Hiroshi SATO

Inventor: Takaaki KOEI

From line 2 in column 6 to line 4 in column 7

With reference to FIG. 3, embodiment of the present invention will be described below. FIG. 3 is a sectional view showing an ultrasonic probe according to the present invention, herein, an example of a probe for a sector machine scanning ultrasonic diagnostic device. In FIG. 3, numerals 2, 3 designate a sound absorbing material and an oscillator as in FIGS. 1, 2. Numeral 5 designates an electric motor fixed to a stand 6, and the rotational motion thereof is converted by a motion converting mechanism 7 attached to the stand 6. The sound absorbing material 2, that is, the oscillator 3 is swung by using a zero point in Fig. 3 as a support.

Numeral 8 designates a case for housing the above members, and the case is composed by a lower part side case part 8a and an upper part side case part 8b. The lower part side case part 8a having an ultrasonic passage part coming into contact with at least the body surface (not shown) of an object is formed of the polymethylpentene. As described above, since the polymethylpentene has also the nature that the polymethylpentene is not

easily transformed by pressing and heating, the entirety of the case 8 is formed of the polymethylpentene herein. Numeral 9 designates an O ring for preventing an ultrasonic transmitting medium (not shown) with which the lower part side case part 8a is filled from leaking to the upper part side case part 8b and the outside of the case 8. The O ring is formed of a silicone rubber or the like. Numeral 10 designates a cable for the oscillator 3 and the electric motor 5.